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NUDT4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57556

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9NZJ9
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20306

Additional Information

Gene ID	11163
Other Names	Diphosphoinositol polyphosphate phosphohydrolase 2, DIPP-2, 3.6.1.52, Diadenosine 5', 5'''-P1, P6-hexaphosphate hydrolase 2, Nucleoside diphosphate-linked moiety X motif 4, Nudix motif 4, NUDT4 (HGNC:8051), DIPP2, KIAA0487
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NUDT4 (HGNC:8051)
Synonyms	DIPP2, KIAA0487
Function	Cleaves the beta-phosphate from diphosphoinositol polyphosphates such as PP-InsP5 (diphosphoinositol pentakisphosphate), PP-InsP4 (diphosphoinositol tetrakisphosphate) and [PP]2-InsP4 (bisdiphosphoinositol tetrakisphosphate), suggesting that it may play a role in signal transduction (PubMed:10777568). Diadenosine polyphosphates, particularly Ap6A (P(1),P(6)-bis(5a-adenosyl) hexaphosphate) and Ap5A (P(1),P(5)-bis(5'-adenosyl) pentaphosphate) are downstream effectors of a signaling cascade that regulates cardiac KATP channels, can also be substrates, although with lower preference than the diphosphoinositol polyphosphates (PubMed:10777568). Can also catalyze the hydrolysis of 5-phosphoribose 1-diphosphate, generating the glycolytic activator ribose 1,5-bisphosphate (PubMed:12370170). Does not play a role in U8 snoRNA decapping activity (By similarity). Binds U8 snoRNA (By similarity).

Cellular Location	Cytoplasm.
Tissue Location	Expressed in heart and, at lower level in skeletal muscle, pancreas and kidney.

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